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10CS/IS761

Seventh Semester B.E. Degree Examination, Dec. 2013/Jan. 2014

**C# Programming and .NET**

Time: 3 hrs.

Max. Marks: 100

**Note:** Answer FIVE full questions, selecting at least TWO questions from each part.

**PART – A**

- 1 a. Define .NET with a neat diagram, explain the important building blocks of .NET platform. (10 Marks)  
b. Illustrate the format of .NET type meta data and CTS structure types. • (10 Marks)
- 2 a. Explain the building .NET type applications using text Pad. (10 Marks)  
b. Describe the refactoring techniques, with suitable methods. (10 Marks)
- 3 a. List and explain the instance methods of system • object and different static members. (10 Marks)  
b. Explain the iteration constructs, with examples. (10 Marks)
- 4 a. What is encapsulation? Discuss the enforcing encapsulation methods, with suitable examples. (10 Marks)  
b. Implement the C#'s polymorphic support, with an example. (10 Marks)

**PART – B**

- 5 a. Explain the "System • GC type", with an illustration. (10 Marks)  
b. With suitable example, explain the structured exception program. (10 Marks)
- 6 a. What is an interface? Explain two methods to obtain interface references. (10 Marks)  
b. Write a program to build "Clonable objects" and explain the methodology. (10 Marks)
- 7 a. Analyze the simplest possible delegate in C#, with example. (10 Marks)  
b. Discuss the advanced keywords of C# :  
i) checked  
ii) unsafe  
iii) stack alloc  
iv) size of. (10 Marks)
- 8 a. Describe the two conceptual views of a .NET assembly, with neat diagrams. (10 Marks)  
b. Explain the steps involved in building and consuming a multifile assembly. (10 Marks)

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